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CONTENTS

General	1
Climate	2
Energy	3
Fish	5
Forest	8
Land, Reclamation	12
Resource Management	17
Wildlife	20
Ordering Technical Publications	23
Maps and Aerial Photography	24
Libraries	25
Other Sources	26

GENERAL

*ALBERTA/CANADA ENERGY RESOURCES RESEARCH FUND: ANNUAL REPORT:

- •1978/79
- •1980/81
- •1981/82
- •1982/83

Annual summary of energy-related research projects supported by the joint provincial-federal fund.

*ALBERTA ENERGY AND NATURAL RESOURCES: ANNUAL REPORT:

•1976/77 •1978/79 •1981/82
•1977/78 •1980/81 •1982/83

*MAP CATALOGUE (1984, 40pp., map descriptions, ordering information, price list). Lists the maps available from the Bureau of Surveying and Mapping, the province's major distributor of provincially and federally published maps.

KEY TO AVAILABILITY:

* One copy on request.

† Distribution limited to libraries, scientific researchers, etc. but may be viewed in the Alberta Energy and Natural Resources (ENR) library.

¢ Out of print. May be viewed in the ENR library.

CLIMATE

‡LIGHTNING MEANS IN ALBERTA: 1972-77 (1979, 7pp., illus.). A summary of the incidence of lightning.

LIGHTNING OVER ALBERTA: MAY-SEPTEMBER:

‡1974
*1975
*1976
*1977
*1978

A summary of lightning incidence.

†PRECIPITATION MEANS: ALBERTA FORESTRY STATIONS: MAY TO SEPTEMBER 1963-1970 — E.V. Srashko (1971, 32pp., illus., tables). Data on the precipitation of forested areas, and the relationship between amount and local topography. Photocopies available.

†PRECIPITATION OVER ALBERTA: MAY-SEPTEMBER:

†1971
†1973
†1974
†1975

A report analysing and mapping monthly precipitation, cumulative precipitation, and abnormalities.

*PROCEEDINGS OF THE 1980 ANNUAL MEETING OF THE ALBERTA CLIMATOLOGICAL ASSOCIATION — ed. K. Leggat (1980, 56pp.). A report on activities of the association for 1979-80, and the climate-related activities of Alberta agencies.

†THE 1983 SYNOPSIS OF THE SACRAMENTO PRECIPITATION STORAGE GAUGE NETWORK — P. Jablonski (1983, 15pp., maps, tables). Annual summary of precipitation for the 1983/84 year.

‡SACRAMENTO STORAGE GAUGE NETWORK 1983 SPRING SUMMARY — P. Jablonski (1983, 13pp., maps, tables).

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* One copy on request.

† Distribution limited to libraries, scientific researchers, etc. but may be viewed in the Alberta Energy and Natural Resources (ENR) library.

‡ Out of print. May be viewed in the ENR library.

ENERGY

COAL

COAL SLURRY PIPELINE FEASIBILITY STUDY 1981 — Fluor Canada Ltd. Consultants for Energy and Natural Resources, and Economic Development. (756pp., maps, illus.,). Study to determine the technical feasibility and estimated cost of the slurry pipeline transport of thermal coal from Western Canadian sources to a Canadian west coast coal trans-shipment facility for eventual export to foreign markets. $150 by money order or cheque payable to The Provincial Treasurer.

*COAL SLURRY PIPELINE FEASIBILITY STUDY 1981 - EXECUTIVE SUMMARY — Fluor Canada Ltd. Consultants for Energy and Natural Resources, and Economic Development. (27pp., maps).

*INTERIM GUIDELINES FOR THE CALCULATION OF CROWN ROYALTY ON MARKETABLE COAL AND OTHER PRODUCTS EFFECTIVE JULY 1, 1976 (1976, 10pp.). Guidelines to assist industry with the requirements of the Coal Royalty Regulations.

ENERGY CONSERVATION

*ENERGY EFFICIENT HOUSING — A PRAIRIE APPROACH (1982, 35pp., illus., tables). A construction guide for building an energy-efficient house, produced in conjunction with Saskatchewan Mineral Resources and Manitoba Department of Energy and Mines.

‡ENERGY EFFICIENT HOUSING SYMPOSIUM (1981, 136pp., illus., tables). Proceedings of the symposium held November 24-26, 1980, Edmonton, Alberta.

*ENERGY MANAGEMENT IN MUNICIPAL WATER AND WASTEWATER SYSTEMS — Canadian Resourcecon Ltd., consultants (1984, 36pp., tables). Summarizes practical steps for municipal utility operators to reduce energy costs.

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* One copy on request.

† Distribution limited to libraries, scientific researchers, etc. but may be viewed in the Alberta Energy and Natural Resources (ENR) library.

‡ Out of print. May be viewed in the ENR library.

*LOW ENERGY HOME DESIGNS (1982, 94pp., illus., tables). Guide for planning and designing a low energy home, produced by Alberta Agriculture with assistance from Energy Conservation Branch, Energy and Natural Resources.

†MUNICIPAL ENERGY CONSERVATION IN ALBERTA — Anna Parkinson and W.A. Ross, Urban Consultants Ltd. for Energy Conservation Branch, ENR. (1982, 94pp., tables). Survey of Alberta municipalities to evaluate their interest in energy management and identify their needs.

MINERALS

†DIAMOND DRILL CORE SELECTION AND STORAGE PROGRAM (1982, 25pp.). An outline providing information and guidelines to the mineral resources industry and interested parties (Subcommittee Meeting of Provincial Geologists).

OIL SANDS AND HEAVY OILS

*OIL SANDS AND HEAVY OILS OF ALBERTA (Energy Heritage book, 1982, 94pp., maps, tables, illus.). Description of the location, history, recovery, production, impact and potential of oil sands, as well as environmental concerns and government processes to control development.

PETROLEUM AND NATURAL GAS

†AMENDMENT TO LEGISLATION CONCERNING ROYALTY CALCULATION FOR OLD GAS, NEW GAS, AND LOW PRODUCTIVITY GAS WELLS AS OF APRIL 1, 1982 (1982, 17pp.) Changes to calculations resulting from amendments to legislation.

†APPLICATION PROCEDURES PETROLEUM RELIEF E.O.R. SCHEMES (1982, 18pp., forms, schedules). Procedures for application, approval and administration of Section 4.2 of the Petroleum Royalty Regulations.

*CONVERSION OF THE NATURAL GAS AND PENTANES ROYALTY FORMULAE TO SI(METRIC) UNITS FOR ROYALTY CALCULATIONS AND VERIFICATION PURPOSES (1979, 4pp.). The conversion for calculating Crown royalty on natural gas and associated by-products. Information Letter 82-11.

*CONVERSION OF THE PETROLEUM ROYALTY FORMULA SI(METRIC) UNITS FOR ROYALTY CALCULATION (ETC.) — C.A. Graf (1982, illus., tables). Energy Resources Information Letter giving the factors necessary to calculate conventional royalty from January 1982-July 1982. Information Letter 83-2.

†GUIDELINES FOR THE CALCULATION AND REPORTING OF NATURAL GAS AND ASSOCIATED BY-PRODUCTS ROYALTY (1979, 136pp.) Amended, April 1982. Guidelines to assist industry with the requirements of the Natural Gas Royalty Regulations.

*INTERIM GUIDELINES FOR THE ADMINISTRATION OF SECTION 4.2 OF THE PETROLEUM ROYALTY REGULATIONS EFFECTIVE JANUARY 1, 1977 (amended June 19, 1979· further amendments expected). Guidelines to assist industry in interpreting the regulations.

*NEW GAS ROYALTY REPORTING SYSTEM EFFECTIVE JANUARY 1979 PRODUCTION: CALGARY CONVENTION CENTRE: FEB. 6, 7, 8, 1979 (1979, 60pp.). Summary of data presented by Alberta Energy and Natural Resources at the seminar.

†A REVIEW OF COMPATIBILITY PROBLEMS IN THE JOINT USE OF CORRIDORS BY PIPELINES AND POWERLINES — L. James (1981, 20pp., illus.). Photocopies available.

POLICY AND LEGISLATION

ALBERTA ENERGY STATUTES AND REGULATIONS (binder). Prices: original set and first year of updating - $20.00 (pre-paid); yearly subscription for updating - $20.00/year (invoiced).

Contact: Mineral Resources Legislation
10th Floor, South Petroleum Plaza
9915 - 108 Street
Edmonton, Alberta, Canada T5K 2C9
Phone: (403) 427-6903

Individual acts and regulations are also available and vary in price from $.50 to $1.50 each. Order from:

Publications and Statutes
11510 Kingsway Avenue
Edmonton, Alberta, Canada
T5G 0X5
Phone: (403) 427-4952

*A COAL DEVELOPMENT POLICY FOR ALBERTA (1976, 47pp.). A statement of the policy and its elements, as well as the administrative procedures concerning individual coal development proposals. Photocopies available. NOTE: Being revised.

*ENR INFORMATION LETTERS (1974 to present, serial). Letters, issued irregularly, clarifying department legislation and offering other policy communications and directives of interest to industry. (An index to the letters is available on request.)

Contact: Minerals Support Branch
Mineral Resources Division
11 Floor, South Petroleum Plaza
Edmonton, Alberta, Canada
T5K 2C9
Phone (403) 427-7707

*FREEHOLD MINERAL TAX (1984, 23pp.). Information on the Freehold Mineral Rights Tax Act and Regulations.

‡OIL AND GAS TENURE LEGISLATION AND PRACTICE IN THE PROVINCE OF ALBERTA: APRIL 1977. An explanation of the administration of the then-new legislation dealing with the land tenure system. NOTE: Being revised.

‡SUMMARY OF ALBERTA LEGISLATION: PETROLEUM AND NATURAL GAS: TO DECEMBER 31, 1977 (n.d., 20pp.). An overview and interpretation of legislation in effect during 1977. NOTE: Being revised.

UNCONVENTIONAL ENERGY SOURCES

*ENERGY AND CHEMICALS FROM WOOD (1979, 55pp., illus., tables). A review of current technology and a feasibility study use in Alberta.

‡PROPANE AS AN ALTERNATIVE TRANSPORTATION FUEL IN ALBERTA: FINAL REPORT — IBI Group Consultants (1980, 92pp., illus., tables). Consultant's report on the potential in Alberta for the use of propane.

FISH

AQUACULTURE

†GAME FISH FARMING IN ALBERTA — B.A. Barton and A.J. Chamberlain (1981, 24pp., maps, illus.). Guidelines for fish farmers, and a summary of common problems in trout farming.

DEVELOPMENT (See also WILDLIFE - GENERAL)

‡AN ASSESSMENT OF FISH AND WILDLIFE USE AND ENHANCEMENT ALTERNATIVES FOR THE DICKSON DAM RESERVOIR — D.A. Wentworth & Associates Ltd. (Consultants) (1982, 351pp., maps, illus., tables). Provides a list of alternatives for increasing the variety and abundance of fish and wildlife resources within the Dickson Dam Reservoir and area.

‡BUCK FOR WILDLIFE FUND PROGRESS REPORT 1973/74 — R. Makowecki (10pp., maps, illus., tables).

‡BUCK FOR WILDLIFE ACTIVITIES SUMMARY REPORT 1975/76 (1976, 34pp., illus., tables).

‡BUCK FOR WILDLIFE: ANNUAL REPORT 1976/77 (1977, 22pp., maps, tables).

‡BUCK FOR WILDLIFE: ANNUAL REPORT 1978/79 (1979, 32pp., maps, tables).

BUCK FOR WILDLIFE IMPROVEMENT PROJECTS - PROGRAM PROGRESS REPORTS:

‡CARSON LAKE IMPROVEMENT PROJECT — R. Makowecki, C. Hunt and L. Hilderbrandt (1978, 37pp., maps, illus., tables).

‡EAGLE LAKE IMPROVEMENT PROJECT — R. Makowecki and C. Hunt (1978, 12pp., maps, illus., tables).

‡FIGURE EIGHT LAKE DEVELOPMENT PROJECT — R. Makowecki and F. Bishop (1978, 9pp., maps, illus., tables).

‡LETHO RESERVOIR IMPROVEMENT PROJECT — R. Makowecki (11pp., maps, illus., tables).

‡LITTLE BEAVERDAM LAKE IMPROVEMENT PROJECT — R. Makowecki and D. Radford (1975, 8pp., maps, illus., tables).

‡MITCHELL LAKE IMPROVEMENT PROJECT — R. Makowecki and M. Kraft (1975, 7pp., maps, illus., tables).

‡PEDLEY RESERVOIR IMPROVEMENT PROJECT — R. Makowecki and C. Hunt (1977, 13pp., maps, illus., tables).

‡PIERRE GREYS LAKE FISH BARRIER IMPROVEMENT PROJECT — R. Makowecki and C. Hunt (1975, 10pp., maps, illus., tables).

‡POLICEMAN CREEK IMPROVEMENT PROJECT — R. Makowecki and C.E. Thompson (1977, 12pp., maps, illus., tables).

‡ROCKLAND BAY NARROWS IMPROVEMENT PROJECT — R. Makowecki and M. Kraft (1977, 8pp., maps, illus., tables).

‡STAUFFER CREEK HABITAT IMPROVEMENT PROJECT (1974 11pp., maps, illus., tables).

†STREAMBANK PROTECTION IN ALBERTA — R. Makowecki (1980, 29pp., illus.). A review of the loss of fish habitat and declining water quality from livestock grazing, and a description of the methods used in the Buck for Wildlife Program to maintain, improve, and develop wildlife and fisheries habitats.

FISHERIES REPORTS

†BIOLOGICAL SURVEY OF GULL LAKE: 1969 — M.E. Kraft (1977, 54pp., illus., tables). A study of fish populations and the limnology of Gull Lake.

‡BIOLOGICAL SURVEY: WAPITI RIVER 1970-74 — P. Paetkau and F. Bishop (n.d., 28pp., illus., tables). A report on the river's biological condition, determined from samples of the benthic fauna and fish, before the establishment of a pulp mill.

†CHARACTERISTICS OF SOME CANADIAN SHIELD LAKES IN ALBERTA — L.A. Rhude (1977, 109pp., illus., tables). A report collecting and organizing data on 49 lakes previously surveyed in the shield region. For each lake there is a bathymetric map, resume of physical, chemical and biological features, and a rating for sport fishery potential.

‡CHARACTERISTICS OF THE LAKES AND PONDS WITHIN THE EDMONTON AREA — L.A. Rhude (1979, 55pp., illus.). Data on 67 lakes, including a rating for sport fishing.

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† Distribution limited to libraries, scientific researchers, etc. but may be viewed in the Alberta Energy and Natural Resources (ENR) library.

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‡COMPETITIVE FEEDING HABITS OF RAINBOW TROUT, WHITE SUCKER, AND LONGNOSE SUCKER IN PAINE LAKE, ALBERTA — B.A. Barton and B.R. Bidgood (1980, 27pp., illus., tables). A study comparing the food habits of trout and suckers during summer.

†COMPOSITION AND STANDING CROP OF BENTHIC INVERTEBRATE COMMUNITIES OF NINE STREAMS IN THE LIVINGSTONE DRAINAGE DISTRICT OF ALBERTA — D.S. Radford (1977, 15pp., illus., tables). A determination in 1973 of the benthic invertebrate communities of the Oldman and Livingstone Rivers and the Ridge, Coal, Isolation, Savanna, Honeymoon, Slacker and Pasque Creeks.

‡EVALUATION OF ALBERTA'S FISHERY MANAGEMENT PROGRAM FOR EAST SLOPE STREAMS — D.S. Radford (1977, 66pp., illus., tables). Results of census studies conducted to evaluate policy to ensure adequate natural reproduction of cutthroat trout and permit them to reach a desirable size for the creel.

‡FIELD SURGICAL PROCEDURE FOR IMPLANTATION OF RADIO TAGS IN FISH — B.F. Bidgood (1980, 9pp., tables). Equipment and methods used for implanting tags in the field.

‡FISH SPECIES COMPOSITION AND DISTRIBUTION IN NINE STREAMS IN THE LIVINGSTONE DRAINAGE DISTRICT OF ALBERTA — D.S. Radford (1974, 12pp., illus., tables).

‡FISHERIES AND WILDLIFE RESOURCES AND THE AGRICULTURAL LAND BASE IN ALBERTA — William M. Glasgow (1982, 65pp., abstract, figures, tables). Report prepared for the Environment Council of Alberta and the Fish and Wildlife Division of Alberta Energy and Natural Resources on the wildlife species and habitats located on the agricultural lands of central and southern Alberta.

‡FISHES OF ABRAHAM LAKE (RESERVOIR) AND THE UPPER NORTH SASKATCHEWAN RIVER — C.D. Tebby (1974, 87pp., illus., tables). A study, from 1972 to 1974, of the aquatic fauna.

†HABITAT SURVEYS OF SCALP, BIGHORN, EAGLE, WILDHORSE, YARA, McCUE, WIGWAM, UNNAMED, SHEEP, AND DOGRIB CREEKS: 1972/73 — L. Fitch (1975, 68pp., illus., maps, tables). An inventory and assessment of the waters.

‡HARVEST OF LAKE STURGEON (ACIPENSER FULVESCENS) IN THE SOUTH SASKATCHEWAN RIVER FROM 1968 TO 1972 — D.S. Radford (1972, 19pp., illus., tables). Results of a sturgeon-angling questionnaire assessing the anglers and various aspects of the harvest, such as the use of minnows as bait.

‡IMPACT OF THE UNLICENSED ANGLER ON THE SPORTS FISHERY IN ALBERTA — J.E. Carss, C.E. Stenton and E.J. Psikla (1978, 20pp., tables). The results and recommendations of a three-year study into the number of unlicensed anglers, their fishing habits, and their catch.

†KANANASKIS COUNTRY FISH AND WILDLIFE BIBLIOGRAPHY: PLANNING DOCUMENT NO. 1 — D.L. Pachal and J. Van Camp (1979, 60pp.). Citations on the fish and wildlife resources and development potential of Kananaskis Country.

†MIGRATORY BEHAVIOR OF THE MAJOR SALMONID FISHES, RAINBOW TROUT, DOLLY VARDEN CHAR AND MOUNTAIN WHITEFISH IN THE TRI-CREEK WATERSHED, 1969 to 1978: THE TRI-CREEKS WATERSHED REPORT NO. 6 — G.L. Sterling (1980, 64pp., illus., tables). The spawning and movements of three species in the McLeod River and Wampus Creek.

‡PHYSIOLOGICAL STRESS IN FISH: A LITERATURE REVIEW WITH EMPHASIS ON BLOOD CORTISOL DYNAMICS — B.A. Barton and L.T. Toth (1980, 18pp.).

‡POLLUTION SURVEY: OLDMAN RIVER/BOW RIVER/RED DEER RIVER/NORTH SASKATCHEWAN RIVER 1969-1970 — G.N. Haugen (1970, 31pp., illus.). Summary of biological sampling of rivers from a pollution or water quality point of view.

†POPULATION DYNAMICS, AGE, AND GROWTH OF RAINBOW TROUT (SALMO GAIRDNERI) AND DOLLY VARDEN (SALVELINUS MALMA) IN THE TRI-CREEK WATERSHED, 1971 to 1977: THE TRI-CREEKS WATERSHED STUDY REPORT NO. 2 — G.L. Sterling (1978, 86pp., illus., tables). A report on the species present, including Rainbow Trout and Dolly Varden estimates and growth patterns, the annual age structure of populations, length-weight relationships and the sex ratios of rainbow trout.

‡POTENTIAL IMPACT OF A SMALL MESH FISHERY ON A LAKE WHITEFISH POPULATION — K.A. Zelt (1977, 14pp., illus., tables).

‡PRELIMINARY FISHERIES SURVEY OF THE WINEFRED-PELICAN AREA — W.E. Griffiths and D.B. Ferster (1974, 449pp., illus., tables). The results of a 1973 survey, combined with data from 1949, 1957, and 1969, on 11 major watersheds and two minor watersheds. Fish populations, bottom fauna, chemical and physical water quality, and a classification of waters by their sports fishing potential are covered.

‡PRELIMINARY SURVEYS OF SULPHUR AND CUTBACK LAKES — PEACE RIVER REGION — F. Bishop (n.d., 23pp., illus., tables). The results of lake surveys done in 1969.

‡PROCURING AND TRANSPORTING WALLEYE EGGS FROM REMOTE LOCATIONS TO A CENTRALIZED HATCHERY — B.F. Bidgood (1980, 20pp., maps, illus., tables). A report testing and comparing techniques for spawning, hardening, and transporting walleye eggs from an isolated location to a hatchery.

‡RAINBOW TROUT POPULATIONS (SALMO GAIRDNERI, RICHARDSON) AND OTHER FISH OF THREE STREAMS IN THE FOOTHILLS OF ALBERTA — K.G. Dietz (1971, 71pp., maps, illus., tables). Descriptive features of rainbow trout populations in headwater tributaries, and discussion of the possible effects of clearcut logging.

‡REPORT OF THE SELECT COMMITTEE ON RECREATIONAL AND COMMERCIAL FISHING INDUSTRIES IN ALBERTA (1980, 61pp.). A review of policies, legislation, and public opinions on the management of Alberta's fishery resources, for consideration by the Legislative Assembly.

‡SELECTED ARTICLES ON CHEMICAL REHABILITATION OF FISHERIES HABITAT — V. Hauer (1981, 400pp.,) Literature search and compilation of articles dealing with rehabilitation of fisheries habitat.

†THE SPORT FISHERY IN ALBERTA: FACTS AND FIGURES FOR 1975 AND 1980 — L.A. Longmore, K. Brickley, C.E. Stenton (1982, 85pp., tables). Sport fishing statistics in Alberta for 1975 and 1980.

‡SUMMARY REPORT: BIOLOGICAL POLLUTION SURVEYS: OLDMAN RIVER, BOW RIVER, RED DEER RIVER, NORTH SASKATCHEWAN RIVER — P. Paetkau:
1969-70
1970-71
Investigation of the pollution status of the rivers.

†SURVEY OF THE FISH POPULATION AND HABITAT IN PRAIRIE CREEK, 1974-1975 — L. Fitch (1981, 54pp., maps, illus., tables). A description of stream habitat characteristics, water quality, benthic invertebrates, fish species, population size, and age and growth characteristics of fish.

†SURVEY OF THE FISH POPULATION AND HABITAT IN FALLENTIMBER CREEK, 1973-74 — L. Fitch (1977, 39pp., illus., tables). A survey of the habitat conditions and fish populations.

‡TOLERANCE OF RAINBOW TROUT TO DIRECT CHANGES IN WATER TEMPERATURE — B.F. Bidgood (1980, 10pp., tables). A study of the effect of increasing water temperatures on the mortality of four sizes of rainbow trout.

‡TROPHY PIKE OF SEIBERT LAKE (CONDENSED VERSION) — R. Makowecki (1973, 46pp., illus., tables). The study of a trophy lake to discover factors which affect a trophy fishery resource and to recommend practices to manage and enhance this resource.

‡TROUT STOCKING IN STREAMS: A REVIEW — L.A. Fitch (1977, 24pp.). A review of recent literature on the survival of stocked trout, the yield effect of stocking on resident populations, and recommendations for stocking based on these findings.

‡WATER QUALITY CHARACTERISTICS OF NINE STREAMS IN THE LIVINGSTONE DRAINAGE DISTRICT OF ALBERTA — D.N. Griffith (1975, 28pp., illus., tables). Results of a 1973 study into the water quality of the Oldman and Livingstone Rivers and seven tributaries, in order to assess the possible effect of a future strip-mining operation.

‡WATER QUALITY OF SOME COAL MINE EFFLUENTS AND THEIR EFFECT ON STREAM BENTHOS AND FISH — D.S. Radford and D.N. Graveland (1978, 58pp., illus., tables).

FOREST

GENERAL

†ALBERTA LAND INVENTORY LAND CAPABILITY FOR FORESTRY — J.H. Archibald, T.R. Bossenberry, Z.T. Nemeth, R.C. Shelford, J.E. Przeczek (1979, 41pp., illus.). A final report on the methods used to assess and rate land for forest productivity in the Canada and Alberta Land Inventory Programs. Land Form Maps provided. See special geomorphic land form maps available from Map and Air Photo Distribution Centre. Photocopies of report available.

†ALBERTA SCALING MANUAL (1979, 57pp., illus., tables). Description of Alberta's scaling system and how it must be applied NOTE: Being revised.

‡1981/82 ANNUAL REPORT FOREST DEVELOPMENT RESEARCH TRUST FUND (1983, tables) Research projects financed by the Forest Development Research Trust Fund in the 1981/82 fiscal year are listed, with summarized objectives and progress.

‡ECOLOGY OF SELECTED WOODY PLANT SPECIES: A BIBLIOGRAPHY — R.W. Parker(1979, 92pp.). Listings on 25 different woody plant species from a search of the English ecological literature.

‡FOREST DEVELOPMENT RESEARCH TRUST FUND: ANNUAL REPORT 1979-80 (1981, 16pp.). The objectives and progress of projects sponsored by the fund during the fiscal year.

‡FOREST DEVELOPMENT RESEARCH TRUST FUND ANNUAL REPORT 1980-81 (1982, 24pp.) Research projects financed by the Forest Development Research Trust Fund in the 1980/81 fiscal year are listed, with summarized objectives and progress.

*FOREST DEVELOPMENT RESEARCH TRUST FUND ANNUAL REPORT 1982-83 (1983, 28pp., tables). A summary of projects financed by the Forest Development Research Trust Fund.

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FOREST STATISTICS REVIEW:

‡1976-77

‡1977-78

*1978-79

*1979-80

*1980-81

*1981-82

Statistical reports on Alberta forests and forest industries.

‡GERMINATION REQUIREMENTS AND EFFECT OF SEED WEIGHT ON GERMINATION AND EARLY SEEDLING DEVELOPMENT OF ALBERTA LODGEPOLE PINE — B. Wang (1979, 26pp.).

*GRANT APPLICATION PROCEDURES, FOREST DEVELOPMENT RESEARCH TRUST FUND (1983, 8pp.) Report lists procedures on applying for grants from the Forest Development Research Trust Fund.

*HYDROLOGIC SIMULATION OF TRI-CREEKS WATERSHED: THE TRI-CREEKS WATERSHED STUDY REPORT NO. 4 — N. Stevens (1980, 25pp., maps, illus., tables). A description of a model developed and used to evaluate the effect of land use on the water cycle.

‡LAND CAPABILITY CLASSIFICATION FOR FORESTRY IN ALBERTA, CANADA LAND INVENTORY — J.R. Prokopchuk and J.H. Archibald (1976, 81pp., illus.). An interim report on the methods used to assess and rate land for forest productivity as part of the Canada Land Inventory Program. Land form maps provided. See special geomorphic land form maps available from Map and Air Photo Distribution Centre.

*MESOCLIMATE OF THE TRI-CREEKS REGION: THE TRI-CREEKS WATERSHED STUDY REPORT NO. 3 — P.D. Jablonski (1978, 14pp., illus., tables). A summary of the variations in temperature and precipitation in Tri-Creeks during the pre-treatment phase of the study, 1967-77.

†MOUNTAIN PINE BEETLE SYMPOSIUM, COLEMAN, ALBERTA, FEB. 6-7/81 (proceedings, 1982, 94pp., tables). Proceedings of a symposium sponsored by the Alberta Forest Service, Canadian Forestry Service, and Canadian Institute of Forestry. Photocopies available.

*PRETREATMENT WATER QUALITY OF THE TRI-CREEKS EXPERIMENTAL WATERSHED: THE TRI-CREEKS WATERSHED STUDY REPORT NO. 7 — P.D. Jablonski (1980, 56pp., illus., tables). Results of the pre-treatment physical, chemical, and thermal water quality of the Tri-Creeks experimental watershed.

†RESOURCE ROAD PLANNING GUIDELINES FOR THE GREEN AREA OF ALBERTA — G.L. Fisher (1982, 36pp., maps, illus., tables) Describes five classes of roads for use by the timber and petroleum industries. Recreation roads and other types of roads that may be required by the Alberta Forest Service are also included.

‡SEED YIELD AND GERMINATION REQUIREMENTS OF ALBERTA WHITE SPRUCE AND LODGEPOLE PINE — B. Wang (1978, 26pp.).

*THE TRI-CREEKS WATERSHED: A STUDY INTO THE EFFECTS OF LOGGING ON THE PHYSICAL, CHEMICAL, AND BIOTIC CONDITIONS OF THREE ALBERTA EASTSLOPE STREAMS: THE TRI-CREEKS WATERSHED STUDY REPORT NO. 1 — P.D. Jablonski (1978, 35pp., illus., tables). An inventory, at the pre-treatment stage, of the geology, soils, topography, climate and biology typical of the high elevation lodgepole and spruce forests of the northwestern Alberta foothills.

*TWO PERSPECTIVES ON FORESTRY: NATIONAL AND PROVINCIAL (1983, 27pp.) Exerpts from two speeches — F.W. McDougall, Deputy Minister, Renewable Resources.

FIRE

*FIRE TEMPERATURES IN GRASS, SHRUB AND ASPEN FOREST COMMUNITIES OF CENTRAL ALBERTA — A.W. Bailey and M.L. Anderson (1980, 4pp., illus., tables). A report on fire temperatures associated with headfires, backfires, and with various fuels in grass, shrub, and forest plant communities. (Reprinted from Journal of Range Management).

*WILDFIRE BEHAVIOR ASSOCIATED WITH UPPER RIDGE PATTERNS — N. Nimchuk (1983, 46pp., illus., maps, tables). An analysis of upper air circulation on wildfire behavior.

FOREST FIRE CONTROL

†AIR TANKERS IN ALBERTA — C.S. McDonald (1976, 42pp., illus., tables). A review of the fixed-wing Air Tanker Program of the Alberta Forest Service.

‡DELPHI: AN EXPERIMENT TO STUDY THE POTENTIAL OF ADVERTISING IN REDUCING FOREST FIRES — M.J. Dunn, B.M. Harnden, and J.D. Newton (1974, 91pp., illus., tables). A study to assist the Alberta Forest Service in allocating the fire prevention budget.

‡FIRE INCIDENCE: 1961-1970 — R.S. Miyagawa (1974, 28pp., illus., tables). An analysis of fire data.

‡FIRE PLANS MANUAL: FIRE DETECTION (1976, 20pp., illus.).

‡FIRE PLANS MANUAL: FIRE PREVENTION (1975, 51pp.)

‡FIRE SIZE: 1961-70 — R.S. Miyagawa (1974, 25pp., illus., tables). An analysis of the data.

‡FIRELINE RATIONS MANUAL (1973, 32pp.). Guidelines for ordering food supplies.

‡MAN-CAUSED FIRES: 1961-1975 — R.S. Miyagawa (1976, 65pp., illus., tables). A discussion of the upward trend in fires caused by humans, and recommendations for the Alberta Forest Service in dealing with this problem.

‡PROBLEM FIRES: 1970-74 — R.S. Miyagawa (1975, 53pp., tables). An analysis of fires covering more than 500 acres, and recommendations for the Alberta Forest Service.

FOREST INDUSTRY

†ALBERTA FOREST INDUSTRY DEVELOPMENT PROSPECTS (1977, 193pp., tables). A report by consultants on forestry and the forest industry in Alberta, recommending a development strategy and the impact it would have on the province.

‡ALBERTA'S FENCE POST INDUSTRY: 1970-74 — B. Karaim (1975, 33pp., illus.). A review of the state of the industry, including a list of the industries in Alberta.

‡ALBERTA'S RAILWAY CROSSTIE INDUSTRY: 1970-76 — B.W. Karaim (1977, 24pp., tables). A study of the industry.

†A DIRECTORY OF PRIMARY WOOD-USING INDUSTRIES IN ALBERTA: 1979 — W.J. Ondro, B.W. Karaim, R.A. Bohning, and G.R. Stevenson (1980, 292pp., maps, tables). Results of a survey of sawmills, planing mills, plywood mills, wood treating plants, and pulp, paper, and paperboard mills. Mill location, ownership, capacity, wood supply, current production and employment, products, markets, marketing agents, woodlands equipment and mill facilities are given.

*FOREST PRODUCTS AND FOREST INDUSTRIAL DEVELOPMENT RESEARCH PROGRAM ANNUAL REPORT 1983 — Energy and Natural Resources, Economic Development and the Research Council (1983, 16pp.). Details of the eight strategic studies projects and 16 forest products research and development projects initiated during the year, the first operating year for the program.

†LUMBER AND PANEL PRODUCTS IMPORTED INTO THE CALGARY AREA IN 1976 (1978, 42pp., tables). A market survey of the Calgary area considering domestic consumption, types of products, prices, end- users, origin of products and methods for shipping products.

‡PUBLIC HEARINGS ON PROPOSED TIMBER DEVELOPMENTS: BERLAND-FOX CREEK AREA, GRAND CACHE, JULY 16, 17, 19, 20, 1979: VOL. I and II. (1979, 444pp. and 556pp.).

†SUPPLY AND DEMAND UTILITY POLES IN ALBERTA — B. Karaim (1975, 29pp., illus.). Compiled statistics for 1970-1974, including a list of producers.

FOREST MANAGEMENT

‡CARAGANA ARBORESCENS LAM. FOR AFFORESTATION OF OIL SANDS RECLAMATION STUDIES: A REVIEW — D. Blackmore (1982, 51pp., tables). The use of caragana on oil sands reclamation sites.

THE ENVIRONMENTAL EFFECTS OF TIMBER HARVESTING IN ALBERTA: VOL. I and II (1973). Prices: project reports (2 volumes) $10, map and overlays $10 from Timber Management, 9th Floor, Bramalea Building, 9920 - 108 Street, Edmonton, Alberta T5K 2M4

‡A TENTH-YEAR REVIEW OF STAND RENEWAL UNDER THE QUOTA SYSTEM OF TIMBER MANAGEMENT IN ALBERTA — D. Crossley (1977, 79pp.).

†TIMBER HARVEST CUT BLOCK DESIGN — C. Henderson (1977, 38pp., illus., tables). A manual on the planning and harvesting ground rules for cut block design, considering the influences of wind, wildlife, silviculture, controlled burning, watershed management, esthetics and harvesting.

REFORESTATION

Also see: LAND Reclamation

‡ALBERTA FOREST REGENERATION SURVEY MANUAL (1979, 43pp.). A manual presenting a systematic and standard approach for determining stocking of desired tree species on cut-over or other denuded lands.

*CONTAINERIZED SEEDLING PROCESSING SYSTEM (PINE RIDGE FOREST NURSERY) — H.R. Winn and W. Dubbeldam (1981, 12pp., illus.). A description of equipment used in growing containerized seedlings at the nursery.

*EARLY PERFORMANCE OF SOME NATIVE AND CULTIVATED GRASSES ON OIL SANDS MINE DISTURBANCE MATERIALS — H. Tomm (1983, 29pp., maps, tables, illus.). A study of field trials of adaptability of native and cultivated grases to oil sands disturbance materials.

‡LODGEPOLE PINE AND WHITE SPRUCE GROWTH AND SURVIVAL AFTER HERBICIDE AND FERTILIZER TREATMENTS ON GRASSY CLEARCUT FOREST LAND — D. Blackmore (1982, 18pp., tables). Summary report of experimental results of treatments of lodgepole pine and white spruce on grassy clearcuts.

*PINE RIDGE FOREST NURSERY: WHERE IT ALL BEGINS (1980, 18pp., illus.). Background about the construction of the nursery and information on its various functions such as seed extraction, cleaning and storage, container seedling production, bareroot seedling production and research.

‡SCARIFICATION FOR REFORESTATION (booklet, 1977, 72pp., illus.). A manual for forest managers, to develop prescriptions for preparing forest sites for reforestation.

RESEARCH

ANALYSIS OF POPLAR-BASED PANELBOARD DEVELOPMENT PROGRAM OPTIONS FOR ALBERTA — Carroll-Hatch (International) Ltd. (Consultants) (1982, 197pp., illus., tables). Study to determine whether or not a pilot panelboard plant in Alberta would induce development of the Alberta panelboard industry. $10 in cheque or money order, payable ro the Alberta Research Council, from ENR Information Centre.

*MARKET ASSESSMENT FOR POPLAR PRODUCTS — Carroll-Hatch (International) Ltd. (Consultants) (1983, 3 volumes, 555pp, illus., tables). Study jointly funded by the Governments of Canada, Alberta and British Columbia to evaluate a wide range of poplar products and to identify potential world markets.

POPLAR CHEMICAL PROCESS DEVELOPMENT AND DEMONSTRATION FACILITY — W.L. Wardrop & Associates Ltd. (Consultants) (1982, 226pp., illus., tables). Conceptual design for a multi-purpose wood chemical pilot/demonstration plant. $15 in cheque or money order, payable to the Alberta Research Council, from ENR Information Centre.

LAND, RECLAMATION

GENERAL

‡THE CANDIDATE RUMSEY ECOLOGICAL RESERVE: A BIOPHYSICAL INVENTORY — Alan Fehr (Consultant) (1982, 103pp., maps, tables). The candidate Rumsey Ecological Reserve is assessed for its biophysical features - plant community types, flora, birds, mammals, amphibians and reptiles, geology, soils etc.

*PLAN REQUIREMENTS FOR FINAL PLANS SUBMITTED BY GAS CO-OPS IN SUPPORT OF PIPELINE AGREEMENT APPLICATIONS (1983, information sheet). A guide to the information which must be indicated on plans submitted by gas co-ops.

REFERENCE MANUAL FOR ALBERTA LAND AGENTS — Land Agent Advisory Committee Registrar of Land Agents (1983, 150pp., maps, illus., tables). Reference manual in binder form, for land agents dealing with legislation, land law and conveyancing, surface rights, land appraisal and compensation, land reclamation, agricultural land use and management, communications and negotiations. $20 by cheque or money order (payable to the Provincial Treasurer) to Energy and Natural Resources, Information Centre, Main Floor, Bramalea Building, 9920 - 108 Street, Edmonton, Alberta T5K 2M4 (403) 427-3590.

*REQUIREMENTS FOR PLANS FOR LICENCE OF OCCUPATION (1983, information sheets). An outline of plans required by the department in support of licence of occupation applications involving public lands.

*REQUIREMENTS FOR SURVEY PLANS (1983, information sheet). Details of survey plans required by the department, covering industrial and mineral developments on public lands (surface lease dispositions).

†THE ROUTE SELECTION PROCESS: A BIOPHYSICAL PERSPECTIVE (1980, 36pp., illus., tables). An examination of five methods for selecting a linear route.

†THE ROUTE SELECTION PROCESS: ENVIRONMENTAL APPROACHES: SEMINAR PROCEEDINGS (1981, 79pp.)

‡SASKATOON MOUNTAIN SIGNIFICANT FEATURES ASSESSMENT — C. Wallis and C. Wershler, Cottonwood Consultants Ltd. (1983, 88pp., maps). The candidate Saskatoon Mountain Special Ecological Reserve is assessed for the important biophysical features it contains.

‡VEGETATION AND FLORA OF THE ALPINE AND UPPER SUBALPINE ZONES — WHITE GOAT AND UPPER SIFFLEUR WILDERNESS AREAS — Peter Lee, Lorna Allen and Pat McIsaac. (1982, 101pp., maps, tables). The two wilderness areas are assessed for their vegetation and flora as part of the assessment for ecological reserves.

‡VEGETATION AND FLORA OF THE CARIBOU MOUNTAINS, ALBERTA: A REPORT FOR THE NATURAL AREAS PROGRAM — P. Lee, R. Ellis and P. Achuff (1981, 84pp., maps, illus., tables). A description of the plant communities and flora of this northern Alberta region.

‡VEGETATION SURVEY AND MAPPING OF THE BEEHIVE CANDIDATE ECOLOGICAL RESERVE — Dr. G.C.D. Griffiths (Consultant) 1981, 52pp., maps, tables). A total of 23 vegetation types are mapped, descibed and compared with other protected areas in Alberta as part of the assessment for ecological reserves.

‡VEGETATION SURVEY AND MAPOPING OF THE PLATEAU MOUNTAIN CANDIDATE ECOLOGICAL RESERVE — Dr. G.C.D. Griffiths (Consultant) 1981, 72pp., maps, tables). A total of 25 vegetation types are mapped, described and compared to other protected areas in Alberta as part of the assessment for ecological reserves.

LAND CONSERVATION AND RECLAMATION COUNCIL RRTAC REPORTS

THE ROLE OF ORGANIC COMPOUNDS IN SALINATION OF PLAINS COAL MINING SITES RRTAC 80-3 — N.S.C. Cameron et al (1980, 46pp., maps, illus., tables). A literature review of the chemistry of sodic mine spoil and the changes expected to occur in groundwater. $5 by cheque or money order (payable to the Provincial Treasurer) from Publication Services, Queen's Printer, 11510 Kingsway Avenue, Edmonton, Alberta, T5G 2Y5 (403) 427-4952.

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* One copy on request.

† Distribution limited to libraries, scientific researchers, etc. but may be viewed in the Alberta Energy and Natural Resources (ENR) library.

‡ Out of print. May be viewed in the ENR library.

PROCEEDINGS: WORKSHOP ON RECONSTRUCTION OF FOREST SOILS IN RECLAMATION RRTAC 80-4 — P.F. Ziemkiewicz, S.K. Takyi and H.F. Regier (1980, 160pp., tables) Experts in the field of forestry and forest soil report on research relevant to forest soil reconstruction and discuss the most effective means of restoring forest capability on mined lands. $5 by cheque or money order (payable to the Provincial Treasurer) from Publication Services, Queen's Printer, 11510 Kingsway Avenue, Edmonton, Alberta T5G 2Y5 (403) 427-4952.

MANUAL OF PLANT SPECIES SUITABILITY FOR RECLAMATION IN ALBERTA 2 Vols. RRTAC 80-5 — L.E. Watson, R.W. Parker and P.F. Polster (1980, 560pp. maps) Forty-three grass, 14 forb and 34 shrub and tree species are assessed in terms of their fitness for use in reclamation. Includes range maps, growth habit, propagation, tolerances and availability. $5 by money order or cheque (payable to the Provincial Treasurer) from Publication Services, Queen's Printer, 11510 Kingsway Avenue, Edmonton, Alberta T5G 2Y5 (403) 427-4952.

1980 SURVEY OF RECLAMATION ACTIVITIES IN ALBERTA RRTAC 81-2 — D.G. Walker and R.L. Rothwell (1981, 76pp., tables). An update of the original survey conducted in 1976 on reclamation activities in Alberta, including research and occupational reclamation, locations, personnel etc. $5 by cheque or money order (payable to the Provincial Treasurer) from Publicaton Services, Queen's Printer, 11510 Kingsway Avenue, Edmonton, Alberta T5G 2Y5 (403) 427-4952.

PROCEEDINGS: WORKSHOP ON COAL ASH AND RECLAMATION RRTAC 81-3 — P.F. Ziemkiewicz, R. Stein, R. Leitch and G. Lutwick (1981, 253pp., illus., tables) Nine technical papers on the chemical, physical and engineering properties of Alberta fly and bottom ashes, revegetation of ash disposal sites and use of ash as a soil amendment. Workshop discussions and summaries are also included. $5 by money order or cheque (payable to the Provincial Treasurer) from Publication Services, Queen's Printer, 11510 Kingsway Avenue, Edmonton, Alberta T5G 2Y5 (403) 427-4952.

LAND SURFACE RECLAMATION: AN INTERNATIONAL BIBLIOGRAPHY 2 Vols. RRTAC 82-1 — H.P. Sims and C.B. Powter (1982, 292pp.) Literature pertinent to reclamation in Alberta is listed in Vol. 1 and is also on the University of Alberta Computing System. Vol. 2 comprises the keyword index and computer access manual. $5 by money order or cheque (payable to the Provincial Treasurer) from Publication Services, Queen's Printer, 11510 Kingsway Avenue, Edmonton, Alberta T5G 2Y5 (403) 427-4952.

A BIBLIOGRAPHY OF BASELINE STUDIES IN ALBERTA: SOILS, GEOLOGY, HYDROLOGY AND GROUNDWATER RRTAC 82-2 — C.G. Powter and H.P. Sims (1982, 97pp.). Baseline information for persons involved in reclamation research or in the preparation of environmental impact assessments. $5 by money order or cheque (payable to the Provincial Treasurer) from Publication Services, Queen's Printer, 11510 Kingsway Avenue, Edmonton, Alberta T5G 2Y5 (403) 427-4952.

SOIL RECONSTRUCTION DESIGN FOR RECLAMATION OF OIL SAND TAILINGS OSESG-RRTAC 83-1 — Monenco Consultants Ltd. (1983, 253pp.). Volumes of peat and clay required to amend oil sand solid tailings were estimated based on existing literature. Separate soil prescriptions were made for spruce, jack pine and herbaceous cover types. The estimates form the basis of recently-initiated field trials. $5 by money order or cheque (payable to the Provincial Treasurer) from Publication Services, Queen's Printer, 11510 Kingsway Avenue, Edmonton, Alberta T5G 2Y5 (403) 427-4952.

THE ALBERTA GOVERNMENT'S RECLAMATION RESEARCH PROGRAM 1982 RRTAC 83-2 — P.F. Ziemkiewicz (1983, 22pp.). This report details the Reclamation Research Program indicating priorities, project status, researchers, results and expenditures. $5 by money order or cheque (payable to the Provincial Treasurer) from Publication Services, Queen's Printer, 11510 Kingsway Avenue, Edmonton, Alberta T5G 2Y5 (403) 427-4952.

EVALUATION OF PIPELINE RECLAMATION PRACTICES ON AGRICULTURAL LANDS IN ALBERTA RRTAC 83-3 — Hardy Associates (1978) Ltd. (1983, 185pp.). Available information on pipeline reclamation practices was reviewed. A field survey was then conducted to determine the effects of pipe size, age, soil type construction method etc. on resulting crop production. $5 by money order or cheque (payable to the Provincial Treasurer) from Publication Services, Queen's Printer, 11510 Kingsway Avenue, Edmonton, Alberta T5G 2Y5 (403) 427-4952.

WORKSHOP PROCEEDINGS: EFFECTS OF COAL MINING ON EASTERN SLOPES HYDROLOGY RRTAC 83-4 — P.F. Ziemkiewicz (1983, 125pp.). Technical papers presented deal with the impacts of mining on mountain watersheds, their flow characteristics and resulting water quality. Mitigative measures and research priorities were also discussed. $5 by money order or cheque (payable to the Provincial Treasurer) from Publication Services, Queen's Printer, 11510 Kingsway Avenue, Edmonton, Alberta T5G 2Y5 (403) 427-4952.

WOODY PLANT ESTABLISHMENT AND MANAGEMENT FOR OIL SANDS MINE RECLAMATION OSESG-RRTAC 83-5 — Techman Engineers Ltd. (1983, 164pp.). A review and analysis of information on planting stock quality, rearing, site preparation, planting and procedures necessary to ensuring survival of trees and shrubs in oil sand reclamation. $5 by money order or cheque (payable to the Provincial Treasurer) from Publication Services, Queen's Printer, 11510 Kingsway Avenue, Edmonton, Alberta T5G 2Y5 (403) 427-4952.

RANGE

‡FORAGE PRODUCTION ON SELECTED NATIVE PRAIRIE SITES IN SOUTHERN ALBERTA — S.G. Klumph, A. Johnson, B. Schuler, S. Smoliak, and R. Wroe (1979, 36pp.). Results of forage clipping studies on selected native range sites and the basis for determining stocking rates.

‡RANGE: A SELECTED BIBLIOGRAPHY OF RESEARCH AND INFORMATION (1975, 201pp.). A listing of publications related to range research and livestock production on range or pasture.

‡RANGE MANAGEMENT — G. Maduram (1980, 106pp.). A reference for field staff, covering management, improvements, poisonous plants, range grasses, and range condition surveying.

‡SITE CLASSIFICATION FOR GRAZING (1981, 8pp.). A description of sites used to classify range types.

†SOUTHERN ALBERTA HERBICIDE APPLICATION PROJECT REPORT — S.E. Hoyles (1980, 54pp., tables). Various chemical applications for control of shrubby species are examined. Photocopies available.

†SOUTHERN ALBERTA RANGE PRODUCTION — S.E. Hoyles (1982, 53pp., tables). An examination of the productivity of rangeland in southern Alberta. Photocopies available.

RANGE RESEARCH

‡ADAPTIVE TRIAL WITH ARCTIC FESCUE AT HIGH LEVEL ALBERTA: FOOTNER LAKE FOREST — T.K. Thompson (1974, 6pp.). The results of a trial on the adaptability of arctic fescue for grazing.

‡DISTRIBUTION, ECOLOGY, AND MANAGEMENT OF FREE-RANGING HORSES IN ALBERTA — R. Salter (1978, 33pp.).

*EFFECT OF FIRE ON A SYMPHORICARPOS OCCIDENTALIS SHRUB COMMUNITY IN CENTRAL ALBERTA — M.L. Anderson and A.W. Baily (1979, 5pp., tables). Report on the response of a western snowberry plant community to fire. (Reprinted from the Canadian Journal of Botany.)

‡GRASS TRIAL FOR RANGE IMPROVEMENT AND EROSION CONTROL AT DIXONVILLE, ALBERTA, PEACE RIVER FOREST — S. Beebe and B. Johnson (1973, 7pp.). The results of a seeding trial using creeping red fescue, timothy, crested wheatgrass, and Kentucky bluegrass.

*HOW TO COLLECT PLANTS AND PREPARE A HERBARIUM — G. Maduram (1979, 27pp.).

*PRESCRIBED BURNING OF A FESTUCA-STIPA GRASSLAND — A.W. Bailey and M.L. Anderson (1978, 4pp., tables). Report on the response of the plant community to fire. (Reprinted from the Journal of Range Management.)

‡RANGE SURVEY OF BEAVERHILL LAKE SHORELINE GRAZING LEASES — Jerry Ehlert (1981, 137pp., maps, illus., tables). Survey of resources of lake area to provide information for integrated resource management plan.

‡TRIALS FOR RANGE IMPROVEMENT IN THE GRANDE PRAIRIE FOREST — D.F. Schenk (1974, 15pp.). A description of the grass trials conducted.

RECLAMATION

Also see: FOREST - Reforestation

†THE CADOMIN RECLAMATION RESEARCH PROJECT: FIRST YEAR RESULTS: 1978 — W. B. Russell and S. K. Takyi (1978, 44pp., illus., tables). The results of the first growing season of reclamation experiments established on an abandoned coal strip-mine.

†THE CADOMIN RECLAMATION RESEARCH PROJECT: SECOND YEAR RESULTS: 1979 — W.B. Russell and S.K. Takyi (1980, 54pp., illus., tables). The results of the second growing season of reclamation experiments established on an abandoned coal strip-mine.

†INFLUENCE OF AGRONOMIC GRASS-LEGUME MIXTURES ON THE PERFORMANCE OF COMMERCIAL SOFTWOOD TREE SPECIES USED IN RECLAMATION — P. King and M. Mihajlovich (1981, 22pp., illus., tables). Results of a study examining the effects of agronomic grass-legume mixtures and application rates on the performance of commercial softwood tree species.

†INFLUENCE OF ROLL-OUT MATS AND RIDGING ON THE ESTABLISHMENT OF PLANT COVER ON AN UNAMENDED COAL SPILL: A PROGRESS REPORT FOR:

‡1979 S. K. Takyi (1980, 42pp., illus., tables).

†1980 S. K. Takyi and R.H. Letich (1981, 26pp., illus., tables).

†METHODS OF ESTABLISHING NATIVE GRASSES ON COAL OVERBURDEN: FIRST YEAR RESULTS (1980) — S.K. Takyi (1981, 22pp., illus., tables). Progress report of an experiment to establish a native grass seed mix on an abandoned open-pit coal mine site southeast of Cadomin.

†NATIVE GRASS AND CULTIVATED GRASS-LEGUME SEED MIXTURE TRIALS ON SUBALPINE COAL-MINED DISTURBANCES IN ALBERTA — H. Tomm and W. B. Russell (1980, 41pp., illus.). A progress report.

†NATIVE GRASS RECLAMATION RESEARCH: CONTAINER PLANTINGS IN THE EASTERN SLOPES OF ALBERTA — W. B. Russell (1979, 34pp.).

†PROGRESS REPORT ON THE TENT MOUNTAIN GRASS AND LEGUME RECLAMATION TRIALS — H. Tomm (1982, 25pp., tables). Results of a five-year study on the adaptability of 19 native grasses over five seeding rates and two fertilizer treatments on topdressed overburden.

‡PROGRESS REPORT ON A PROGRAMME TO SELECT AND EVALUATE NATIVE TREES AND SHRUBS FOR RECLAMATION IN THE ROCKY MOUNTAIN EASTERN SLOPES OF ALBERTA — P.J. King (1980, 5pp.).

†RECLAMATION SURVEY OF THE PANTHER RIVER COAL EXPLORATION DISTURBANCES (1981, 45pp., maps, illus., tables). Findings of surveys carried reclamation success as indicated by vegetation establishment and erosion control.

‡THE RESOURCE HANDBOOK (1979, 85pp., illus.). Guidelines for resource protection, of concern to industries involved with surface-disturbing operations on forested lands.

†REVIEW OF SEED PRETREATMENTS REQUIRED FOR GERMINATION OF CANDIDATE NATIVE TREE AND SHRUB SPECIES IN THE EASTERN SLOPES OF THE ROCKY MOUNTAINS AND FOOTHILLS OF ALBERTA — P. King (1980, 56pp.).

†SUMMARIES OF CURRENT RECLAMATION STUDIES (1981, 26pp.). A summary of field studies underway by the Reforestation and Reclamation Branch of Alberta Energy and Natural Resources.

*SUMMARIES OF CURRENT RECLAMATION STUDIES (1982, 26pp.). A summary of field studies underway by the Reforestation and Reclamation Branch of Alberta Energy and Natural Resources.

*SUMMARIES OF CURRENT RECLAMATION STUDIES (1984, 28pp.). A summary of field studies underway by the Reforestation and Reclamation Branch of Alberta Energy and Natural Resources.

†SURVEY OF NATIVE TREES AND SHRUBS ON DISTURBED LANDS IN THE EASTERN SLOPES — W.B. Russell (1979, 38pp.). A report showing native trees and shrubs as potentially useful plant materials for reclamation in Alberta.

*TESTING OF SEED PRE-GERMINATION TREATMENTS FOR SELECTED NATIVE SHRUB SPECIES: PRELIMINARY PHASE — P. King, G. Grainger and A. Straka (1983, 65pp., tables, illus.). Results of preliminary experiments on pre-germination treatments for nine selected native woody plant species being tested for reclamation of disturbed land in the Eastern Slopes.

RESOURCE MANAGEMENT

Also see: FISH - FISHERIES REPORTS
FOREST - Management
WILDLIFE - Management

GENERAL

NATURAL RESOURCES INFORMATION DIRECTORY 1984 Edited by D.W. Perrin (1984, 364pp., maps, tables). An index for assessing and accessing natural resource and land related information on Alberta. Price $7. (including $2 postage and handling) for non-government agencies by cheque or money order (Payable to the Provincial Treasurer) from Map and Air Photo Distribution Centre and ENR Information Centre.

‡A POLICY FOR RESOURCE MANAGEMENT OF THE EASTERN SLOPES (1977, 19pp., illus.). (Out of print. Being revised.)

INVENTORIES AND EVALUATIONS

ALBERTA FOREST SERVICE BACKGROUND PAPERS FOR
‡INTEGRATED RESOURCE PLANS: (Maps available on request).
‡BERLAND REGIONAL PLAN (1981, 180pp., maps, tables).
‡BRAZEAU-PEMBINA SUB-REGIONAL (1981, 146pp., illus., tables).
‡FROST HILLS CURRENT MANAGEMENT PLAN (1981, 149pp., maps., tables).
‡NORDEGG-RED DEER RIVER SUB-REGIONAL PLAN RED DEER-JAMES MAP SHEET (1982, 140pp., tables).
‡NORDEGG-RED DEER RIVER SUB-REGIONAL PLAN CHUNGO-CLINE-NORDEGG MAP SHEET (1982, 95pp., maps., illus., tables).
‡ROCKY-NORTH SASKATCHEWAN SUB-REGIONAL PLAN (1982, maps, tables).

BIOPHYSICAL ANALYSIS AND EVALUATION OF CAPABILITY:
†BLUEBERRY MOUNTAIN C. Van Waas (1978, 46pp., maps).
†CASTLE RIVER H. Anderson (1978, 72pp., maps).
†CLEAR RIVER L.K. Brocke (1976, 52pp., maps).
†COLD LAKE — P.M. Ojamaa (1978, 46pp., maps).
†DIXONVILLE — C. Van Waas (1977, 30pp., maps).
†FORT ASSINIBOINE — E. Boyacioglu (1975, 31pp., maps).
†HIGH LEVEL — P. Kumar (1977, 47pp. maps).
†LA CRETE — T.F. Cameron (1977, 47pp., maps).
†LAKE GEORGE — C. Van Waas and E. Boyacioglu (1973, 32pp., maps). Photo copies available from Resource Evaluation Branch (427-9017).
†LAKELAND — W.L. Strong (1978, 35pp., maps).
†LAND USE PLAN FOR THE BIRCH HILLS Land Use Assignment Committee (1974, 110pp., maps, illus., tables). Photo copies available from Resource Evaluation Branch (427-9017).
†LAND USE STUDY SUFFIELD BLOCK Land Use Assignment Committee (1975, 96pp., maps, illus., tables). Photo copies available from Resource Evaluation Branch (427-9017).
†LITTLE SMOKY — P.M. Ojamaa (1978, 28pp., maps).
†ROCHESTER — P. Kumar (1976, 26pp., maps).
†STURGEON LAKE — E. Boyacioglu (1977, 30pp., maps).
†WHITECOURT — C. Van Waas (1978, 39pp., maps).
†WHITEMUD HILLS — C. Van Waas (1977, 32pp., maps).
Reports and accompanying maps classifying land area by ecological (biophysical) parameters. The classification is the basis for land-use evaluations (presented by a system of land-use capability ratings).

ECOLOGICAL LAND CLASSIFICATION AND EVALUATION:
†BRAZEAU-PEMBINA — K. DUTCHAK (1981, 66pp., maps, illus., tables).
†CARCAJOU — K.L. Dutchak (1979, 49pp., maps).
‡FORT VERMILION GRAZING RESERVE — P.M. Ojamaa (1977, 17pp., illus.).
†FROST HILLS — W.L. Strong (1982, 57pp., maps, tables).
†GHOST RIVER — C.M. McGregor (1979, 64pp., maps).
†HIGHWOOD-SHEEP — H.G. Anderson (1979, 63pp., maps).
†JEAN D'OR PRAIRIE — W.L. Strong (1981, 60pp., maps, illus., tables).

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* One copy on request.
† Distribution limited to libraries, scientific researchers, etc. but may be viewed in the Alberta Energy and Natural Resources (ENR) library.
‡ Out of print. May be viewed in the ENR library.

†LIVINGSTONE-PORCUPINE — W.L. Strong (1979, 89pp., maps).
†SWAN HILLS TOWNSITE — W.L. Strong (1982, 20pp., maps, tables).
†SWARTZ LAKE — W.L. Strong (1980, 40pp., maps, tables).
Reports and accompanying maps classifying land areas by ecological (biophysical) parameters.

*ECOREGIONS OF ALBERTA — W.L. Strong and K.R. Leggat (1981, 64pp., maps, illus., tables). Descriptions of the representative vegetation, characteristic climate, and soils for each ecoregion. Some of the common deviations are identified.

†EVALUATION OF FIVE GRANULAR DEPOSITS, McCLELLAND LAKE AREA — Thurber Consultants Ltd. (1981, 6 vols., maps, illus., tables). A physical evaluation of five granular deposits in the vicinity of the proposed Alsands project, intended to determine materials available for various construction uses.

†FORAGE INVENTORY OF:
THE BRAZEAU-PEMBINA STUDY AREA — R.L. Wehrhahn (1981, 97pp., maps, illus., tables)
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THE JEAN D'OR PRAIRIE STUDY AREA — K.W. Bishoff (1981, 71pp., maps, illus., tables)
THE RAM CLEARWATER STUDY AREA — J.H. Archibald (1982, 91pp., maps, illus., tables).
THE ROCKY-NORTH SASKATCHEWAN STUDY AREA — J.H. Archibald (1981, 109pp., maps, illus., tables)
Reports and accompanying maps classifying the vegetation of the area to determine annual herbaceous forage.

†PHYSICAL LAND CLASSIFICATION OF:
THE BERLAND CURRENT REGIONAL PLAN STUDY AREA — N.B. Ferguson (1980, 35pp., maps).
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THE CACHE-PERCOTTE STUDY AREA — W.S. Tedder (1980, 35pp., maps).
THE COLD LAKE STUDY AREA — D.J. Sauchyn (1979, 30pp., maps).
THE GHOST RIVER STUDY AREA — W.S. Tedder (1980, 69pp., maps).
THE IOSEGUN LAKE STUDY AREA — W.S. Tedder and D.J. Sauchyn (1979, 17pp., maps).
THE LIVINGSTONE-PORCUPINE STUDY AREA — A.G. Levinsohn and E.W. Karpuk (1980, 53pp., maps).
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THE PEMBINA GRAZING RESERVE AREA — E.W. Karpuk (1979, 17pp., maps, illus.).
THE ROCHESTER STUDY AREA (PRELIMINARY) — W.S. Tedder, N.B. Ferguson, and E.K. Karpuk (1981, 50pp., maps, tables).
THE ROCKY MOUNTAIN HOUSE GRAZING RESERVE STUDY AREA — D.J. Sauchyn (1979, 11pp., maps).
THE ROCKY-NORTH SASKATCHEWAN AREA (INTEGRATED RESOURCE INVENTORY) — S.S. Kocaglu (1983, 39pp., maps, illus., tables).
THE SANG LAKE GRAZING RESERVE AREA — E.W. Karpuk (1983, 21pp., maps, illus., tables).
THE SWARTZ LAKE STUDY AREA — K.J. Crockett (1980, 40pp., maps, illus., tables).
THE WILLMORE-KAKWA AREA — N.B. Ferguson (1980, 56pp., maps, illus.).
A description of the physical landscape including geology, relief and geomorphology, drainage, slope and soils. These reports can be used in conjunction with Physical Land Classification maps, available through the Alberta Maps and Air Photo Distribution Centre (see MAPS AND AERIAL PHOTOGRAPHY).

†TERRAIN SENSITIVITY CLASSIFICATION METHODOLOGY — K. Crockett and R. Shelford (1981, 112pp., maps, illus., tables). A proposed technique for classifying the landscape into areas of similar inherent sensitivity.

†TERRAIN SENSITIVITY INTERPRETATION — R.C. Shelford, N.B. Ferguson, and S. Kish (1982, 33pp., maps, tables). A case study using the techniques developed in the Terrain Sensitivity Classification Methodology.

INTEGRATED RESOURCE INVENTORIES

†INTEGRATED RESOURCE INVENTORY OF SPECIAL LAKELAND AREA — S.S. Kocaoglu and K.E.J. Bennett (1983, 150pp., maps, illus., tables). Integrated Resource Inventory of the Special Lakeland Area including a physical land classification and the forage classification. These inventories describe the physical land, soils and vegetation of the landscape and their interrelationship.

A description of the physical land and vegetative (forage) inventories of the landscape, including information on the geomorphology, geology, relief, drainage, slope, soils and vegetation (vegetation communities, biomass for productivity). These reports are used in conjunction with Physical Land and Forage maps available through the Alberta Maps and Air Photo Distribution Centre (see MAPS AND AERIAL PHOTOGRAPHY).

INTEGRATED RESOURCE PLANS

REGIONAL

‡INTEGRATED RESOURCE PLAN: LOWER PEACE RIVER REGIONAL OVERVIEW (1981, 120pp., maps, illus., tables). An overview of resource activities in the region, and identification of areas suitable for agricultural expansion and therefore more detailed subregional planning.

‡ROCKY-CLEARWATER MANAGEMENT OVERVIEW: FINAL REPORT AND RECOMMENDATIONS (1980, 43pp., maps) An overview recommending boundaries and priorities for Integrated Management Plans, objectives for plans to follow and development strategies for individual recommended Integrated Management Plan Priority Areas.

SUB-REGIONAL

†CANMORE CORRIDOR INTEGRATED LAND MANAGEMENT PLAN — C. Walker (1979, 28pp., maps). An integrated land management plan for the public lands in the Canmore Corridor.

‡PEERLESS-GRAHAM LAKES RESOURCE MANAGEMENT PLAN — B. Pinnell and P. Short (1977, 114pp., maps). An integrated resource management plan.

‡SPRING CREEK AREA INTEGRATED RESOURCE MANAGEMENT PLAN (1980, 54pp., maps).

‡WAPITI-GRANDE PRAIRIE SAND DUNES INTEGRATED LAND USE MANAGEMENT PLAN (1978, 125pp., maps). An integrated resource management plan.

LOCAL

*BEAVERHILL LAKE BACKGROUND INFORMATION (1981, 17pp., maps).

*BEAVERHILL LAKE LAND USE PLAN (1981, 17pp., illus., tables).

‡POLL HAVEN LAND USE PLAN — D. Lloyd (1977, 86pp., maps). An integrated resource management plan.

GRAZING RESERVES

†BEAR CANYON GRAZING RESERVE LAND USE PLAN (1977, 49pp., maps). An integrated resource management plan for a provincial grazing reserve.

†BLACKFOOT OPERATIONAL DEVELOPMENT PLAN (1983, 47pp., maps, tables). An integrated resource management plan combining grazing, recreation and wildlife protection.

‡FORT VERMILION GRAZING RESERVE LAND USE PLAN (1977, 82pp., maps). An integrated resource management plan for a provincial grazing reserve.

†MANNING GRAZING RESERVE LAND USE PLAN (1977, 76pp., maps). An integrated resource management plan for a provincial grazing reserve.

‡MEDICINE LAKE GRAZING RESERVE ADDITIONAL LAND USE PLAN (1977, 39pp., maps). An integrated resource management plan for a provincial grazing reserve.

‡PEMBINA GRAZING RESERVE (1981, 43pp., maps, illus., tables).

‡ROCKY MOUNTAIN HOUSE GRAZING RESERVE (1980, 41pp., maps).

†THREE CREEKS GRAZING RESERVE INTEGRATED LAND USE PLAN (1979, 85pp., maps). An integrated resource management plan for a provincial grazing reserve.

WILDLIFE

GENERAL (See also FISH - DEVELOPMENT)

†CURRENT PESTICIDE USE IN ALBERTA: FISH AND WILDLIFE CONCERNS AND RECOMMENDATIONS — L.P. Horstman (1976, illus., tables). Photocopies available.

†PROPOSED REVISION OF THE WILDLIFE ACT: DISCUSSION PAPER (1983, 9pp.) Proposed changes to the Wildlife Act, prepared in order to elicit comments and suggestions.

†THE IMPACTS OF RECREATION ON FISH AND WILDLIFE WITH EMPHASIS ON KANANASKIS COUNTRY: A LITERATURE REVIEW AND PARTIAL BIBLIOGRAPHY: PLANNING DOCUMENT NO. 4 — B. Cornish, J. Van Camp, and M. McNicholl (1980, 116pp., tables). A discussion of the effect road development and access for recreation might have on habitat and wildlife.

‡NORTHERN WILD SHEEP COUNCIL SYMPOSIUM PROCEEDINGS, 1972 — Edited by E.G. Scheffler (1972, 117pp., maps, illus., tables). Twelve research papers on management, diseases and parasites, and behavior, plus two panel discussions.

‡OCCURRENCE OF INGESTED LEAD SHOT IN ALBERTA DUCKS: 1977 — H.R. Weaver (1978, 17pp., tables). A study of the mortality of waterfowl from lead poisoning.

‡PROCEEDINGS OF THE EIGHTH BIENNIAL PRONGHORN ANTELOPE WORKSHOP: JASPER, ALBERTA, CANADA, May 2-4, 1978 (n.d., 532pp., illus., tables).

‡PROCEEDINGS OF THE 1981 FISH AND WILDLIFE OFFICERS ANNUAL MEETING. (156pp.).

†THE PRONGHORN ANTELOPE IN ALBERTA — George J. Mitchell (1980, 165pp., maps, illus., tables). Research results from broadscale studies of pronghorn in Alberta. Copies available from author, Department of Biology, University of Regina, Regina, Saskatchewan, S4S 0A2.

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‡RECOVERY DISTRIBUTION FROM SUMMER DUCK BANDING IN ALBERTA — H. Weaver, B. Turner, S. Pryor, and J. Allen (1979, 127pp., illus., tables).

†A REVIEW OF THE ECOLOGICAL RELATIONSHIPS BETWEEN MULE AND WHITE-TAILED DEER — August Kramer (1971, 48pp., maps, illus., tables). An investigation into the co-existence of two deer species.

‡WILDLIFE PROJECTS (1980/81 (1981, 98pp.). A listing of current wildlife branch projects including background, objectives and results. Revision being done.

HABITAT

*NATURAL VEGETATION COMMUNITIES NEAR ROCHESTER, ALBERTA — D.H. Rusch, L.B. Keith and E.C. Meslow (1971, 22pp., maps, illus., tables). Results of sampling of vegetation in a four square mile study area near Rochester, including descriptions of the four vegetation communities and a discussion of their origins.

‡UTILIZATION OF THE KOOTENAY PLAINS OF WESTERN ALBERTA BY UNGULATES — D.J. Mussell (Consultrant) 1982, 45pp., maps, tables). A study which assesses the historical and present-day importance of the candidate Kootenay Plains ecological preserve for ungulates, especially elk.

HUNTING AND TRAPPING

†COMPULSORY REGISTRATION OF BIG GAME KILLS IN NORTH AMERICA — C. Lynch and H. Carr (1974, 18pp., tables). Results of questionnaires sent to 62 wildlife management agencies regarding the use of compulsory registration.

*ECONOMIC EVALUATION OF ALBERTA ZONE 1 MOOSE HUNTING ACTIVITY — W.S. Pattison (n.d., 62pp., illus., tables). A report measuring the net social benefits and economic impact of hunting.

‡ENCOUNTERS BETWEEN HUNTERS AND PARASITES OF MOOSE IN ALBERTA — W.M. Samuel (n.d., 21pp., illus., tables). An investigation into the loss of moose meat because of infestations.

†A QUESTIONNAIRE SURVEY OF REGISTERED TRAPPERS IN ALBERTA IN 1977 — D.H. Meredith and A.W. Todd (1979, 100pp., graphs, tables). A 1977 survey to determine the characteristics of registered trappers, their problems, needs and expectations, attitudes, and trapping patterns and trends.

†A STUDY OF WINTER COYOTE HUNTING IN ALBERTA WITH EMPHASIS ON USE OF SNOWMOBILES — S.P. Wetmore, C.H. Nellis, and L.B. Keith (n.d., 42pp., illus., tables). Results of a 1967/68 study into the methods and success of hunting coyotes, the coyote survival rate, and the attitudes of farmers, sportspeople and department staff towards coyote hunting and various hunting methods.

INVENTORIES

†INVENTORY OF NON-GAME MAMMALS IN KANANASKIS COUNTRY: PLANNING DOCUMENT NO. 3 — T.A. Mill and P. Anderson (1980, 72pp., maps, tables). A description of the current status of 46 mammals, and discussion of population dynamics and harvesting. Photocopies available.

†A REVIEW OF BIRDS AND THEIR HABITATS IN KANANASKIS COUNTRY: PLANNING DOCUMENT NO. 2 — A.N. Wiseley (1979, 168pp., maps, tables). A report listing all bird species recorded, and the habitat in which they were found.

LAW ENFORCEMENT

‡AN ANNOTATED BIBLIOGRAPHY ON THE SOCIAL AND BEHAVIORAL ASPECTS OF WILDLIFE LAW ENFORCEMENT — M.J. Melnyk (1978, 40pp.).

†BIBLIOGRAPHY OF FORENSIC SCIENCE IN WILDLIFE LAW ENFORCEMENT — ed. M. Wilson (1978, 171pp.).

†FACTORS ASSOCIATED WITH WILDLIFE LAW VIOLATION IN ALBERTA — M.J. Melnyk (1978, 115pp., tables).

†FORENSIC SCIENCE: SYMPOSIUM PROCEEDINGS - APRIL 13-15, 1977 (1977, 321pp., tables).

†HUNTER ATTITUDES TOWARD ALBERTA'S WILDLIFE LAWS AND WILDLIFE OFFICERS — M.J. Melnyk (1977, 28pp., illus., tables). Results of a 1975 study.

MANAGEMENT

†CHEMICAL IMMOBILIZATION OF NORTH AMERICAN GAME MAMMALS — D.M. Hebert and R.J. McFetridge (1979, 250pp., illus., tables, second edition, revised). Summary of available information on methodology of immobilization and tranquilization of wild animals. Available only to those directly involved in the feeding and tagging of bears.

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†ENVIRONMENTAL EFFECTS OF FORESTRY OPERATIONS IN ALBERTA: FISH AND WILDLIFE CONCERNS. (1978, 106pp., illus., tables, graphs). Photocopies available.

†HABITAT MANAGEMENT AND MANIPULATION FOR WILDLIFE IN KANANASKIS COUNTRY: STRATEGIES AND METHODOLOGY: PLANNING DOCUMENT NO. 7 — A.N. Wiseley (1980, 52pp.).

*INTERACTIONS OF NORDIC SKIERS WITH UNGULATES IN ELK ISLAND NATIONAL PARK — M.A.D. Ferguson and L.B. Keith (1981, 31pp., maps, tables). Results of a questionaire to skiers in January-March 1979 on use of the park, observations of wildlife, flight responses, values of skiing and closing of trials to mitigate harmful effects on wildlife.

†METHODOLOGY USED FOR ALBERTA LAND INVENTORY OF FURBEARERS — A.W. Todd (1978, 68pp., illus., tables). The development and nature of the furbearer inventory system adopted by the Alberta government.

*PHEASANT RAISE AND RELEASE PROGRAMS: SIX WEEK-OLD PHEASANT RAISER'S MANUAL — D. Moyles, L. Lester and B. Goddard. (1983, 30pp., maps, illus.) Step-by-step guide including pen preparation, care, and release of birds in the six week-old pheasant chick program.

*PHEASANT RAISE AND RELEASE PROGRAM: DAY-OLD PHEASANT RAISER'S MANUAL — D. Moyles, L. Lester and B. Goddard. (1983, 31pp., maps, illus.) Step-by-step guide including pen preparation, care, and release of birds in the day-old pheasant chick program.

‡POPULATION REDUCTION AS A FACTOR IN THE CONTROL OF SKUNK RABIES IN ALBERTA — R.C. Rosatte, M.J. Pypus, and J.R. Gunson (1983, 18pp., maps, tables). Proceedings of the North American Symposium on Rabies in Wildlife at John Hopkins University, Baltimore, Maryland, Nov. 7 and 8, 1983.

‡PRESENCE OF NEUTRALIZING ANTIBODIES TO RABIES VIRUS IN STRIPED SKUNKS FROM AREAS FREE OF SKUNK RABIES IN ALBERTA — R.C. Rosatte and John R. Gunson (1984, 15pp., maps, tables).

*RESPONSES OF COYOTES TO WINTER REDUCTION IN AGRICULTURAL CARRION — A.W. Todd and L.B. Keith (1976, 32pp., illus., tables). Summary of results of a study to evaluate the control of coyote populations through elimination of agricultural carrion in the winter of 1972/73 and 1973/74 near Westlock, Alberta.

†A REVIEW OF ALBERTA FUR PRODUCTION AND MANAGEMENT: 1920-21 TO 1977-78 — A.W. Todd and L.C. Geisbrecht (1979, 64pp., illus., tables).

‡A WILDLIFE MANAGEMENT PLAN FOR WILLMORE WILDERNESS PARK — J. Olynyk (1980, 93pp., maps, illus., tables). A description of the flora and fauna and ways it can be retained with industrial and recreational activities in the park.

‡WOLF-UNGULATE PREDATION IN NORTH AMERICA: REVIEW OF MAJOR STUDIES — John R. Gunson. (1983, 31pp.)

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